



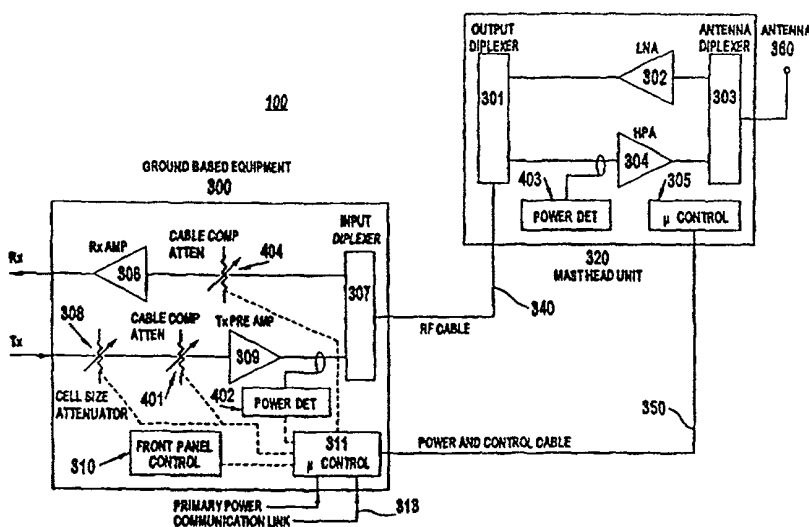
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<p>(21) International Application Number: PCT/US99/30652 (22) International Filing Date: 23 December 1999 (23.12.99) (30) Priority Data: 60/118,824 5 February 1999 (05.02.99) US (71) Applicant (for all designated States except US): INTERDIGITAL TECHNOLOGY CORPORATION [US/US]; Suite 527, 300 Delaware Avenue, Wilmington, DE 19801 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BIRD, John [US/US]; 66 Oakley Drive, Huntington Station, NY 11746 (US). KAZAKEVICH, Leonid [US/US]; 95 Roundtree Drive, Plainview, NY 11803 (US). (74) Agents: VOLPE, Anthony, S. et al.; Volpe and Koenig, P.C., One Penn Center, Suite 400, 1617 John F. Kennedy Boulevard, Philadelphia, PA 19103 (US).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report.</p>

(54) Title: COMMUNICATION STATION WITH AUTOMATIC CABLE LOSS COMPENSATION



(57) Abstract

A wireless communications system employing code-division multiple access information transmission techniques includes a transmission facility having ground-based transmission and reception electronic equipment, a remotely located RF power amplifier, an antenna, and an RF cable connecting the ground-based equipment with the remotely located RF power amplifier. Power level detectors in the ground-based equipment and in the remotely located RF power amplifier measure the signal level at each end of the RF cable. A microcontroller compares these measurements and adjusts a variable attenuator in the transmission signal path and a variable attenuator in the received signal path to compensate for signal level variability due to variations in signal loss.